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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635,359	08/06/2003	William Grant	IR-2553 DIV 8877	
7	590 10/19/2004	EXAMINER		
	K, FABER, GERB &	NGO, NGAN V		
1180 Avenue of the Americas New York, NY 10036-8403			ART UNIT	PAPER NUMBER
New Tork, 14	1 10030-8403		2814	
•			DATE MAILED: 10/19/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)			
Office Action Summary		10/635,35	9	GRANT, WILLIAM			
		Examiner		Art Unit			
		Ngan Ngo		2814	·		
Period fo	The MAILING DATE of this communicati or Reply	ion appears on the	cover sheet with the c	orrespondence address			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communicate operiod for reply specified above is less than thirty (30) day of period for reply is specified above, the maximum statutor irretoreply within the set or extended period for reply will, be reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no eve attion. ys, a reply within the statu y period will apply and will by statute, cause the appli	int, however, may a reply be tim story minimum of thirty (30) days Il expire SIX (6) MONTHS from ication to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) filed or	n <u>26 August 2004</u> .					
2a)[This action is FINAL . 2b)	☑ This action is n	on-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)[\	4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 14-20 is/are allowed. 6) Claim(s) 1-13 is/are rejected. 7) Claim(s) is/are objected to.						
Applicat	ion Papers						
9)□	The specification is objected to by the Ex	caminer.					
10)	The drawing(s) filed on is/are: a)[accepted or b)[\square objected to by the F	Examiner.			
	Applicant may not request that any objection	-	•	• •			
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmen	t(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 			4) Interview Summary Paper No(s)/Mail Da				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>0804</u>. 				atent Application (PTO-152)			

Application/Control Number: 10/635,359

Art Unit: 2814

The Information Disclosure Statement filed August 26, 2004 has been entered and made of record as paper no. 0804.

Original claim 10 depends from original claim 11. Correction is requested.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Kagawa (US-5,371,405, cited by Applicant).

Kagawa discloses a power module comprising at least one power device (6), a housing element (13), a lead frame (3) including a conductive pad having large area to receive the power device, a heat sink (1), and a thermally conductive but electrically insulating material (2) interposed between and indirect contact with a second open surface of the conductive pad and heat sink. Note figure 1(b) of Kagawa.

In re claim 2, the house element 13 includes a molded rim surrounding the conductive pad.

In re claim 3, figure 2 show a plurality of conductive pads.

In re claim 4, the semiconductor devices are connected together as shown in figures 2-5.

In re claim 5, Kagawa shows power bus and common conductive pads in figures 2-5. Note elements 2-4, 9, and 11

Art Unit: 2814

In re claim 6, the conductive pads in Kagawa are isolated from each other as shown in figure 1(b).

In re claim 8, figure 1(b) clearly show the wire bond.

In re claims 11 and 12, the circuit board is formed inside of the housing as shown in figure 1(a).

In re claim 13, the conductive bars (10 and 12) are formed on opposite side of the housing element.

Claims 14-20 stand allowed.

Any inquiry concerning this communication should be directed to Examiner Ngan Ngo at telephone number (571) 272-1711. The fax number for the Art unit is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Ngan Van Ngo Primary Examinor

Ngan Ngo

October 8, 2004